Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Climax Transfer Station AUM Site

Navajo AUM Northern Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

12767.063.496.1111

August 2010

Part I	Site Identification, Location	n and Status			
Site Names aı	nd ID numbers as applicable	e			
Mine ID:	667				
Map ID:	N191				
CERCLIS:	NNN000909047				
Navajo Aban	doned Mine Land Reclamat	ion Program: None			
Local name /	Aliases: Proposed Fairgroun	ds; Shiprock New Fairground	s		
Chapter and	local area: Shiprock Chapter	r			
County: San	Juan State: Utah				
Lat/Long: 36.746494472 N / -108.702151022 W					
Nearby road	and highway: Highway 491	Local Post Office: Shiproc	k		
Surface Land below	Status: check one or more	and provide ownership and	contact information		
Tribal Trust Private Bureau of La State		Public lands Tribal Fee Land Allotment Fee land			
Subsurface M	fineral Rights:				
No information on subsurface mineral rights ownership was found in the EPA/AUM Database.					
Claim and op	erator information:				
The mine site surface land status is classified as Tribal Trust Land. No other historical ownership / lease information was identified in the EPA/AUM database.					
Number of residential structures within 200 feet of mine: None					

Estimated volume of mine waste onsite: None

Part II Summary of radiological readings

Highest gamma radiation measurement:

29,170 counts per minute (cpm)

Describe any other radiological measurements:

A total of 611 gamma radiation measurements were collected from the mine site, ranging from 10,470 cpm to 29,170 cpm. Measurements collected from some low-lying areas were found at levels up to approximately 30,000 cpm. The measurements are represented in Figures 1 and 2.

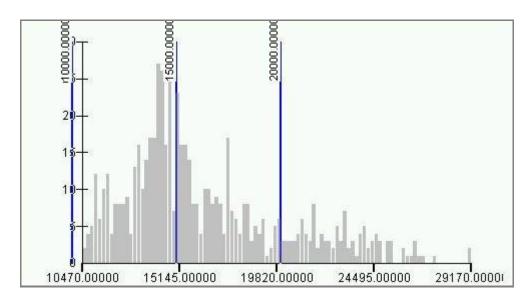
Background Locations

Average background = 10,278 cpm

#1 10,278 cpm

Distribution Chart and Statistics:

The following chart and statistics were generated by ESRI ArcGIS 9.3.1, and show the general distribution of the site gamma radiation measurements. The horizontal X axis represents the gamma radiation reading levels in cpm (lowest levels to the left). The vertical Y axis represents the frequency of each gamma radiation level.



 Count:
 611

 Minimum:
 10470,00000

 Maximum:
 29170,00000

 Sum:
 9972044,00000

 Mean:
 16320,85761

 Median:
 15196,00000

 Standard Deviation:
 3826,17518

Part III Status of Reclamation and Mine Waste

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed : No Waste Pile onsite : No

NAMLRP Project Number: None

NAMLRP Mine features: None

The following information was obtained from field observations collected during the 2010 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

of any reclamation caps. Note condition of all caps.	,	0	•
Observed reclamation work and status:			
Adits None			
Waste Piles None			
Pits None			

Other Debris and Mine Features

None

Shafts None

Part IV

Site observations and Environs

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None

200 feet to 0.25 mile: A housing compound with 6 houses was found across Hwy 491, approximately 0.1 mi W of site

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None

200 feet to 0.25 mile: None

Levels measured around the perimeter(s) of the identified structure(s):

Consistent with background levels

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None

0.25 miles to 4 miles: None

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None

Known Site History: include information from interviews with Chapter officials and residents. Note information on mine ownership, type of mining operation, period of operation, known amount of production, and any other information as provided.

Climax Transfer Station consists of an area of 8,648.54 m². The mine was not identified as ever being operational. No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Site Name(s): Climax Transfer Station **Chapter:** Shiprock

Decision Criteria

Is there an unreclaimed waste pile at the site? No

At what distance from the waste pile is the nearest residential structure located? None

At what distances from the waste pile are there potential drinking water sources? None

Is there a reclamation cap or sealed adit in place at the site? No

Is the cap/seal functionally intact? None

Is the cap/seal sufficiently degraded to create a concern about releases? No

At what distance from the cap/seal is the nearest domestic structure located? None

At what distance from the cap/seal is the nearest domestic drinking water source? None

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

None

Part VI Photos



Photo 1. Climax Transfer Station site



Photo 2. Housing compound across Hwy 491, W of site

Part VII Contacts Reports and Information

Name: <u>Stanley Edison</u> (928) 871-6861					
Eugene Esplain (928) 871-7331					
Title or official role (if any) Navajo EPA Superfund Program					
Address PO Box 2946, Window Rock, AZ 86515					
Information provided <u>Lead Regulatory Agency</u>					
Name	_				
Title or official role (if any)					
Telephone number					
Information provided					
Name	_				
Title or official role (if any)					
Telephone number					
Information provided					
Name	_				
Title or official role (if any)					
Telephone number					
Information provided					

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Climax Transfer Station (667)
Shiprock Chapter, Navajo Nation



Average background = 10,278 cpm

Figure 2 - Gamma Radiation Measurements Climax Transfer Station (667) Shiprock Chapter, Navajo Nation



Legend

Gamma Radiation Measurements

- 0 10,000
- 10,000 15,000
- 15,000 20,000
- **2**0,000 50,000
- 50,000 100,000
- > 100,000



Gamma survey conducted 06/2010 Measured as counts per minute (cpm)

Average background 10,278 cpm

